

24feb05 12:41:53 User268673 Session D1076.2  
 Sub account: 112740-1058  
 SYSTEM:OS - DIALOG OneSearch  
 File 331:Derwent WPI First View UD=200512 (c) 2005 Thomson  
 Derwent  
 \*File 331: For patent family information, search also File 351, 352,  
 or 350.  
 File 351:Derwent WPI 1963-2005/UD,UM &UP=200512  
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 \*File 351: For more current information, include File 331 in your  
 search.  
 Enter HELP NEWS 331 for details.

Set	Items	Description
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S	PN=DE 19520353	
	S1	1 PN=DE 19520353
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T S1/5

1/5/1 (Item 1 from file: 351)  
 DIALOG(R)File 351:Derwent WPI  
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011057128 \*\*Image available\*\*  
 WPI Acc No: 1997-035053/199704  
 XRPX Acc No: N97-029447

Digital signal reception improvement method - using filtering of  
 digital  
 signals followed by Fourier transformation involving multiplication by  
 time windows of calculated width

Patent Assignee: DEUT THOMSON-BRANDT GMBH (THOH )  
 Inventor: ARMBRUSTER V; MUSCHALLIK C  
 Number of Countries: 024 Number of Patents: 011  
 Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
DE 19520353	A1	19961212	DE 195020353	A	19950607	199704	B
WO 9641458	A1	19961219	WO 96EP2209	A	19960523	199705	
EP 830771	A1	19980325	EP 96916152	A	19960523	199816	
			WO 96EP2209	A	19960523		
JP 11506590	W	19990608	WO 96EP2209	A	19960523	199933	
			JP 97500116	A	19960523		
BR 9608613	A	19990629	BR 968613	A	19960523	199937	
			WO 96EP2209	A	19960523		
MX 9709523	A1	19980301	MX 979523	A	19971204	200002	
KR 99022601	A	19990325	WO 96EP2209	A	19960523	200023	
			KR 97709082	A	19971206		
US 6088327	A	20000711	WO 96EP2209	A	19960523	200037	
			US 97952436	A	19971117		
CN 1186583	A	19980701	CN 96194328	A	19960523	200266	
KR 377785	B	20030517	WO 96EP2209	A	19960523	200359	
			KR 97709082	A	19971206		
MX 219782	B	20040407	WO 96EP2209	A	19960523	200477	
			MX 979523	A	19971204		

Priority Applications (No Type Date): DE 195020353 A 19950607

Cited Patents: 1.Jnl.Ref; EP 441732; EP 562868; EP 613267

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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DE 19520353	A1		13	H04L-027/00	
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WO 9641458	A1 G		28	H04L-027/26	
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Designated States (National): BR CN JP KR MX US

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU

MC

NL PT SE

EP 830771	A1 G			H04L-027/26	Based on patent WO 9641458
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Designated States (Regional): AT CH DE ES FR GB IT LI NL SE

JP 11506590	W		27	H04J-011/00	Based on patent WO 9641458
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BR 9608613	A			H04L-027/26	Based on patent WO 9641458
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MX 9709523	A1			H04L-027/26	
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KR 99022601	A			H04L-027/26	Based on patent WO 9641458
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US 6088327	A			H04L-027/26	Based on patent WO 9641458
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CN 1186583	A			H04L-027/26	
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KR 377785	B			H04L-027/26	Previous Publ. patent KR 99022601
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Based on patent WO 9641458

MX 219782	B			H04L-027/26	Based on patent WO 9641458
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Abstract (Basic): DE 19520353 A

The method involves the conversion of the orthogonal frequency division multiplex (OFDM) signals to the basic band and the digital signals are passed to a first unit where they are scanned and filtered,

to produce the  $M1 * Ts$  scan values.

A frequency mixing unit matches the signal before the carrier frequencies are removed. Subsequently a fast Fourier transformation is

performed. The length of the transformation amounts to  $M1 * N$  and each

of the coefficients ( $M1$ ) is calculated.

USE/ADVANTAGE - Suitable for television receivers esp. digital receivers. Improved separation of carriers.

Dwg.1/8

Title Terms: DIGITAL; SIGNAL; RECEPTION; IMPROVE; METHOD; FILTER; DIGITAL;

SIGNAL; FOLLOW; FOURIER; TRANSFORM; MULTIPLICATION; TIME; WINDOW; CALCULATE; WIDTH

Derwent Class: W01; W02

International Patent Class (Main): H04J-011/00; H04L-027/00; H04L-027/26

International Patent Class (Additional): H04L-005/06

File Segment: EPI

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S PN=DE 19900324

S2 1 PN=DE 19900324

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T S2/5

2/5/1 (Item 1 from file: 351)  
DIALOG(R) File 351:Derwent WPI  
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013325549 \*\*Image available\*\*

WPI Acc No: 2000-497488/200044

XRPX Acc No: N00-406716

Multiple data transmissions over current networks involves multiplying each signal before transmission by window function whose Fourier transmission has null crossing at each frequency

Patent Assignee: POLYTRAX INFORMATION TECHNOLOGY AG (POLY-N)

Inventor: TAEGER W

Number of Countries: 028 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
NO 200000053	A	20000710	NO 200053	A	20000106	200044 B
EP 1018826	A2	20000712	EP 2000100006	A	20000103	200051
DE 19900324	C1	20000720	DE 199000324	A	19990107	200044
JP 2000232429	A	20000822	JP 20005933	A	20000107	200044
US 6751262	B1	20040615	US 2000479160	A	20000107	200439
JP 3576909	B2	20041013	JP 20005933	A	20000107	200467

Priority Applications (No Type Date): DE 199000324 A 19990107

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
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NO 200000053	A			H04J-011/00	
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EP 1018826	A2	G	15	H04L-027/26	
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Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE  
IT

LI LT LU LV MC MK NL PT RO SE SI

DE 19900324	C1			H04J-013/02	
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JP 2000232429	A		12	H04J-011/00	
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US 6751262	B1			H04L-005/26	
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JP 3576909	B2		20	H04J-011/00	Previous Publ. patent JP 2000232429
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Abstract (Basic): EP 1018826 A2

NOVELTY - The method involves modulating encoded data in blocks onto several carrier frequencies in one or more frequency bands using

an orthogonal frequency multiplex method and transmitting a corresp.

signal produced by inverse Fourier transformation and contg. a data block for a defined time period to a receiver, whereby individual signals are transmitted sequentially as signal blocks. Each signal is

multiplied before transmission by a window function whose Fourier transmission has a null crossing at each frequency used and has auxiliary matrices with a damping of at least -30 dB in relation to the main maximum.

USE - For multiple data transmissions, esp. over current networks.

ADVANTAGE - High data transmission rates are achieved in narrow

frequency bands without causing interference outside the frequency bands used.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic representation of an arrangement for data communications via a current

network

digital signal processor (1)  
DAC (2)  
ADC (3)  
transformer (4)  
current network (5)

pp; 15 DwgNo 1/4

Title Terms: MULTIPLE; DATA; TRANSMISSION; CURRENT; NETWORK;  
MULTIPLICATION

; SIGNAL; TRANSMISSION; WINDOW; FUNCTION; FOURIER; TRANSMISSION;  
NULL;

CROSS; FREQUENCY

Derwent Class: W01

International Patent Class (Main): H04J-011/00; H04J-013/02; H04L-005/26;

H04L-027/26

International Patent Class (Additional): H04B-001/69; H04B-003/54;

H04B-014/00; H04L-005/06; H04L-025/08; H04L-027/28

File Segment: EPI

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S PN=DE 19934669

S3

1 PN=DE 19934669

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T S3/5

3/5/1 (Item 1 from file: 351)  
DIALOG(R) File 351:Derwent WPI  
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013914995 \*\*Image available\*\*  
WPI Acc No: 2001-399208/200143  
XRPX Acc No: N01-294174

Transmission of radio signals between base station and mobile stations  
by

estimating transmission characteristics of radio channels and using  
pre-emphasis accordingly

Patent Assignee: BOSCH GMBH ROBERT (BOSC )

Inventor: PELZ R M

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19934669	A1	20010315	DE 1034669	A	19990723	200143 B

Priority Applications (No Type Date): DE 1034669 A 19990723

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19934669	A1		7	H04B-007/204	

Abstract (Basic): DE 19934669 A1

NOVELTY - Communication transmitter/receiver stations operate  
at

the same frequencies, and use different time slots. The radio  
signals

are distributed among different carrier signals at different  
frequencies, such that the radio signals do not interfere with each  
other. The base station (1) defines transmission characteristics of  
the

radio channels for each carrier frequency it receives. The base  
station

then uses pre-emphasis on the radio signals to be transmitted for  
each

carrier frequency, in accordance with the defined characteristics.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for a  
transmission/receiving station, especially a base station.

USE - For orthogonal frequency division multiplex (OFDM) mobile  
radio system.

ADVANTAGE - Simplified pre-emphasis. Increased transmission  
capacity and simplified mobile station, with less power  
consumption.

DESCRIPTION OF DRAWING(S) - The drawing shows block diagram of  
a

base station for a OFDM mobile radio system.

pp; 7 DwgNo 1/3

Title Terms: TRANSMISSION; RADIO; SIGNAL; BASE; STATION; MOBILE;  
STATION;

ESTIMATE; TRANSMISSION; CHARACTERISTIC; RADIO; CHANNEL; PRE;  
EMPHASIS;

ACCORD

Derwent Class: W01; W02

International Patent Class (Main): H04B-007/204  
International Patent Class (Additional): H04B-001/62; H04B-007/26;  
H04Q-007/30  
File Segment: EPI  
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S PN=DE 10129317  
S4 1 PN=DE 10129317  
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T S4/5

4/5/1 (Item 1 from file: 351)  
DIALOG(R) File 351:Derwent WPI  
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015170723 \*\*Image available\*\*  
WPI Acc No: 2003-231251/200323  
XRPX Acc No: N03-183945

**Adapting filter corner frequencies when transmitting discrete multi-tone**

**symbols involves using low pass filters with variable corner frequencies**

**determined by definition devices**

Patent Assignee: INFINEON TECHNOLOGIES AG (INFN ); STRAEUSSNIGG D (STRA-I)

Inventor: STRAEUSSNIGG D

Number of Countries: 002 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 10129317	A1	20030123	DE 1029317	A	20010619	200323 B
US 20030026352	A1	20030206	US 2002175332	A	20020619	200323
DE 10129317	B4	20040115	DE 1029317	A	20010619	200405

Priority Applications (No Type Date): DE 1029317 A 20010619

Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
DE 10129317	A1	12	H04L-027/26	
US 20030026352	A1		H04L-027/04	
DE 10129317	B4		H04L-027/26	

Abstract (Basic): DE 10129317 A1

NOVELTY - The method involves applying a transmission symbol data

stream of discrete multi-tone symbols to an interpolator, interpolating, low pass filtering the interpolated data stream using a

corner frequency defined by a first corner frequency definition device,

converting to analog form, transmitting, digitizing, low pass filtering

with a second corner frequency, decimalizing and outputting a received

symbol data stream to a multi-tone receiver.

DETAILED DESCRIPTION - The method involves applying a transmission

symbol data stream of discrete multi-tone symbols to an interpolator

(214), interpolating with a symbol rate, low pass filtering (216) the

interpolated data stream using a corner frequency defined by a first

corner frequency definition device (218), converting to analog form (204), transmitting, digitizing (104), low pass filtering (105)

with a

second corner frequency, decimalizing (107) and outputting a received symbol data stream to a multi-tone receiver (222). AN INDEPENDENT CLAIM is also included for the following: a circuit for adapting filter corner frequencies.

USE - For adapting filter corner frequencies when transmitting discrete multi-tone symbols.

ADVANTAGE - Transients are reduced.

DESCRIPTION OF DRAWING(S) - The drawing shows a schematic representation of a circuit for transmitting data using the multi-tone method

- multi-tone transmitter (223)
- interpolator (214)
- low pass filters (216,105)
- corner frequency definition device (218)
- analogue to digital converter (204 digital to analog converter(104)
- decimalizer (107)
- multi-tone receiver (222)

pp; 12 DwgNo 1/4

Title Terms: ADAPT; FILTER; CORNER; FREQUENCY; TRANSMIT; DISCRETE; MULTI;

TONE; SYMBOL; LOW; PASS; FILTER; VARIABLE; CORNER; FREQUENCY; DETERMINE;

DEFINE; DEVICE

Derwent Class: U22; W01

International Patent Class (Main): H04L-027/04; H04L-027/26

File Segment: EPI